

**Box No. VIII (iv) DECLARATION: INVENTORSHIP** (only for the purposes of the designation of the United States of America)  
*The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.*

**Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv))  
 for the purposes of the designation of the United States of America:**

I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.

This declaration is directed to the international application of which it forms a part (if filing declaration with application).

This declaration is directed to international application No. PCT/EP03/12089 (if furnishing declaration pursuant to Rule 26ter).

I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.

I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.

Prior Applications: .....

I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 101 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: COPPI, Francesco

Residence: ITALY

(city and either US state, if applicable, or country)

Mailing Address: TELECOM ITALIA S.p.A. - Via G. Reiss Romoli, 274 - I-10148 TORINO - Italy

Citizenship: ITALY

Inventor's Signature: Maurizio C. ....  
 (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)

Date: 10 NOV. 2003

(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

Name: CROZZOLI, Maurizio

Residence: ITALY

(city and either US state, if applicable, or country)

Mailing Address: TELECOM ITALIA S.p.A. - Via G. Reiss Romoli, 274 - I-10148 TORINO - Italy

Citizenship: ITALY

Inventor's Signature: Maurizio C. ....  
 (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)

Date: 10 NOV. 2003

(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

This declaration is continued on the following sheet, "Continuation of Box No. VIII (iv)".

## Continuation of Box No. VIII (i) to (v) DECLARATION

If the space is insufficient in any of Boxes Nos. VIII (i) to (v) to furnish all the information, including in the case where more than two inventors are to be named in Box No. VIII (iv), in such case, write "Continuation of Box No. VIII..." (indicate the item number of the Box) and furnish the information in the same manner as required for the purposes of the Box in which the space was insufficient. If additional space is needed in respect of two or more declarations, a separate continuation box must be used for each such declaration. If this Box is not used, this sheet should not be included in the request.

## Continuation of Box VIII(iv)

Name: DISCO, Daniele

Residence: ITALY

Mailing Address: TELECOM ITALIA S.p.A.  
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Inventor's Signature: *Daniele Disco*

Date: 10 NOV. 2003

Name: SCOTTI, Renato

Residence: ITALY

Mailing Address: TELECOM ITALIA S.p.A.  
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Citizenship: ITALY

Inventor's Signature: *Renato Scotti*

Date: 10 NOV. 2003

## POWER OF ATTORNEY FROM ASSIGNEE

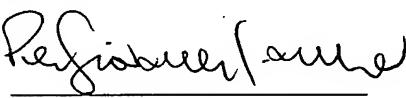
In accordance with 37 C.F.R. § 3.73(b), TELECOM ITALIA S.p.A. ("Assignee"), duly organized under the laws of ITALY and having its principal place of business at Piazza degli Affari 2, 20123 Milano, Italy, represents that it is the assignee of the entire right, title and interest in and to a patent application entitled "**METHOD AND SYSTEM FOR PERFORMING DIGITAL BEAM FORMING AT INTERMEDIATE FREQUENCY ON THE RADIATION PATTERN OF AN ARRAY ANTENNA**", which was filed on October 30, 2003 as PCT International Application No. PCT/EP2003/012089 in the name(s) of COPPI Francesco, CROZZOLI Maurizio, DISCO Daniele and SCOTTI Renato, as indicated by assignment(s) duly recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_ on \_\_\_\_\_, or by the copy of assignment(s) attached hereto.

Assignee hereby appoints the following attorney and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: **FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P., CUSTOMER NUMBER 22,852.**

The undersigned is authorized to act on behalf of Assignee.

Respectfully submitted,

By:

  
Signature

Name: Pier Giovanni Giannesi

Title: Proxy Holder

Assignee: TELECOM ITALIA S.p.A.

Dated: March 27, 2006

## POWER OF ATTORNEY FROM ASSIGNEE

In accordance with 37 C.F.R. § 3.73(b), PIRELLI & C. S.p.A. ("Assignee"), duly organized under the laws of ITALY and having its principal place of business at Via G. Negri 10, 20123 Milano, Italy, represents that it is the assignee of the entire right, title and interest in and to a patent application entitled "**METHOD AND SYSTEM FOR PERFORMING DIGITAL BEAM FORMING AT INTERMEDIATE FREQUENCY ON THE RADIATION PATTERN OF AN ARRAY ANTENNA**", which was filed on October 30, 2003 as PCT International Application No. PCT/EP2003/012089 in the name(s) of COPPI Francesco, CROZZOLI Maurizio, DISCO Daniele and SCOTTI Renato, as indicated by assignment(s) duly recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_ on \_\_\_\_\_, or by the copy of assignment(s) attached hereto.

Assignee hereby appoints the following attorney and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: **FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P., CUSTOMER NUMBER 22,852.**

The undersigned is authorized to act on behalf of Assignee.

Respectfully submitted,

By: Pier Giannini  
Signature

Name: Pier Giannini Giannesi  
Title: Proxy Holder  
Assignee: PIRELLI & C. S.p.A.

Dated: March 27, 2006